

SEQUENCE LISTING

<110> KOCHENDOERFER, GERD G.
SHAO, HAIYAN
CRESSMAN, SONYA

<120> MULTIPLEX POLYMER LIGATION

<130> GRFN-047WO

<140> Unassigned
<141> filed herewith

<150> 60/437,511
<151> 2002-12-30

<150> 60/515,609
<151> 2003-10-29

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<211> 174
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic granulocyte stimulating protein

<221> VARIANT
<222> (58)...(58)
<223> Xaa = a non-native lysine chemically modified at
the epsilon-amino group with an oxime linker group
coupled to a designated water-soluble polymer
through an oxime bond (or intermediates which
contain AoA)

<221> VARIANT
<222> (121)...(121)
<223> Xaa = Nle (norleucine)

<221> VARIANT
<222> (126)...(126)
<223> Xaa = Nle (norleucine)

<221> VARIANT
<222> (131)...(131)
<223> Xaa = psi (non-native amino acid residue
consisting of a cysteine that is
carboxamidemethylated at the sulfhydryl group)

<221> VARIANT
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<223> Xaa = a non-native lysine chemically modified at
the epsilon-amino group with an oxime linker group
coupled to a designated water-soluble polymer
through an oxime bond (or intermediates which
contain AoA)

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Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val
 35          40          45
Leu Leu Gly His Ser Leu Gly Ile Pro Xaa Ala Pro Leu Ser Ser Cys
 50          55          60
Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser
65          70          75          80
Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser
      85          90          95
Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp
      100          105          110
Phe Ala Thr Thr Ile Trp Gln Gln Xaa Glu Glu Leu Gly Xaa Ala Pro
      115          120          125
Ala Leu Xaa Pro Xaa Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe
      130          135          140
Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe
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Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro
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<210> 2

<211> 174

<212> PRT

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<220>

<223> synthetic granulocyte stimulating protein

<221> VARIANT

<222> (17)...(17)

<223> Xaa = Abu (Aminobutyric acid)

<221> VARIANT

<222> (58)...(58)

<223> Xaa = a non-native lysine chemically modified at the epsilon-amino group with an oxime linker group coupled to a designated water-soluble polymer through an oxime bond (or intermediates which contain AoA)

<221> VARIANT

<222> (121)...(121)

<223> Xaa = Nle (norleucine)

<221> VARIANT

<222> (126)...(126)

<223> Xaa = Nle (norleucine)

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<222> (131)...(131)

<223> Xaa = psi (non-native amino acid residue consisting of a cysteine that is carboxamidemethylated at the sulfhydryl group)

<221> VARIANT

<222> (133)...(133)

<223> Xaa = a non-native lysine chemically modified at

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coupled to a designated water-soluble polymer
through an oxime bond (or intermediates which
contain AoA)

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			20					25					30		
Glu	Lys	Leu	Cys	Ala	Thr	Tyr	Lys	Leu	Cys	His	Pro	Glu	Glu	Leu	Val
		35					40					45			
Leu	Leu	Gly	His	Ser	Leu	Gly	Ile	Pro	Xaa	Ala	Pro	Leu	Ser	Ser	Cys
	50					55					60				
Pro	Ser	Gln	Ala	Leu	Gln	Leu	Ala	Gly	Cys	Leu	Ser	Gln	Leu	His	Ser
65					70					75					80
Gly	Leu	Phe	Leu	Tyr	Gln	Gly	Leu	Leu	Gln	Ala	Leu	Glu	Gly	Ile	Ser
			85						90					95	
Pro	Glu	Leu	Gly	Pro	Thr	Leu	Asp	Thr	Leu	Gln	Leu	Asp	Val	Ala	Asp
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Phe	Ala	Thr	Thr	Ile	Trp	Gln	Gln	Xaa	Glu	Glu	Leu	Gly	Xaa	Ala	Pro
	115						120					125			
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Gln	Arg	Arg	Ala	Gly	Gly	Val	Leu	Val	Ala	Ser	His	Leu	Gln	Ser	Phe
145					150					155					160
Leu	Glu	Val	Ser	Tyr	Arg	Val	Leu	Arg	His	Leu	Ala	Gln	Pro		
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